

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P943212

Luminaire Tested: **GALN-SB7C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47439 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

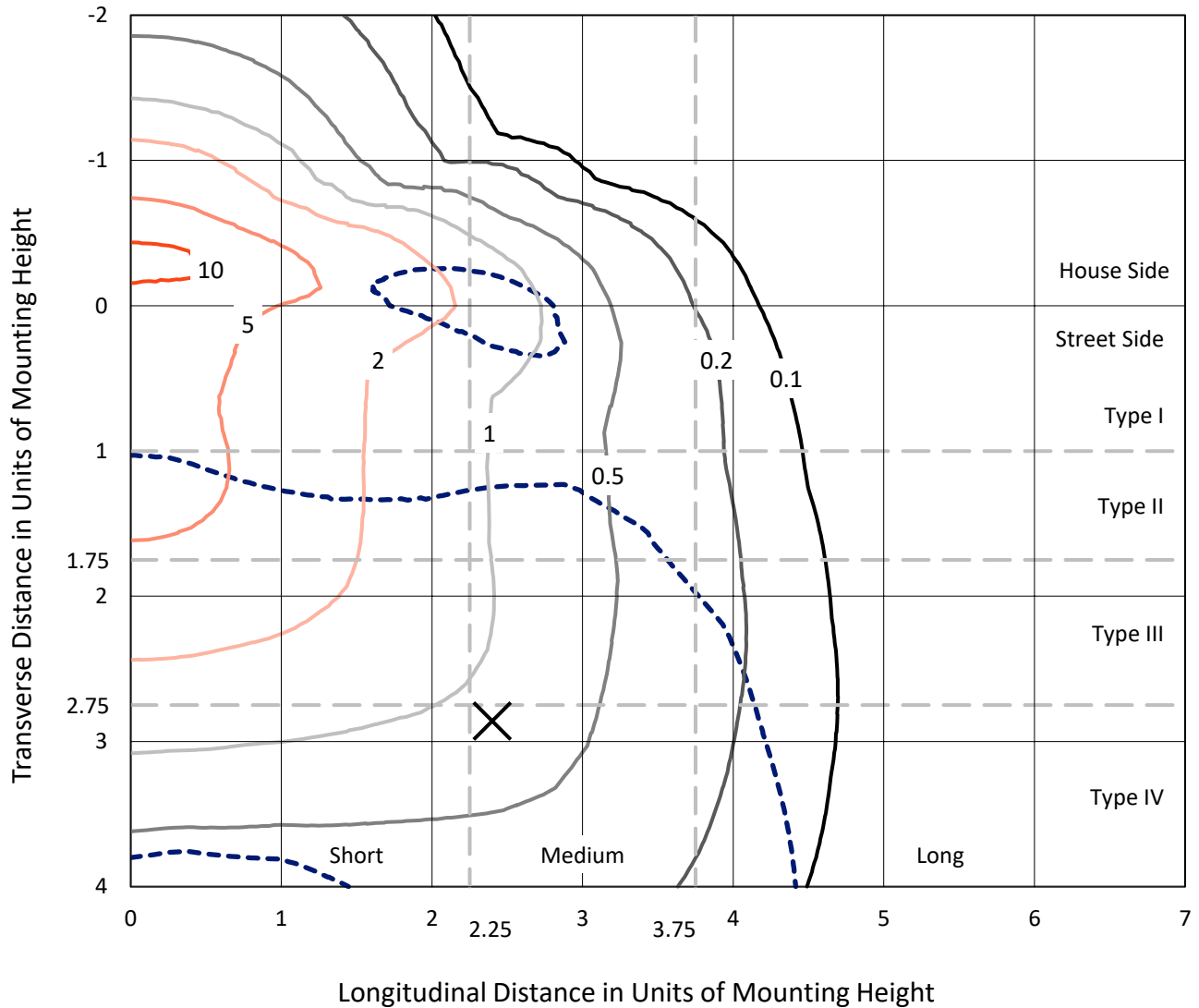
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

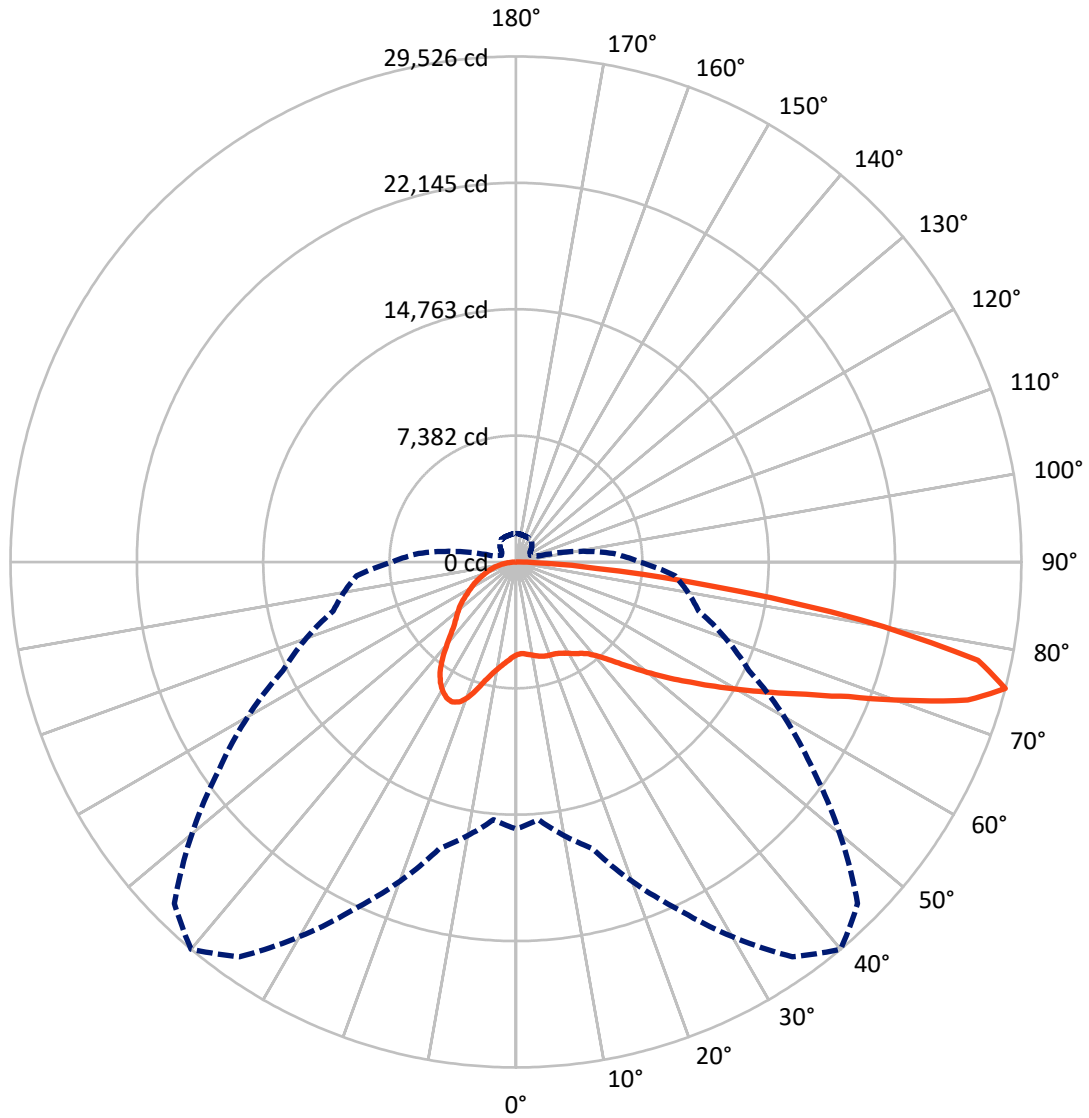
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14698.2	0.0	14698.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	32740.8	0.0	32740.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	47439.0	0.0	47439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.5	1.1
10°-20°	1818.0	3.8
20°-30°	3319.6	7.0
30°-40°	4708.1	9.9
40°-50°	6357.3	13.4
50°-60°	8552.3	18.0
60°-70°	10854.8	22.9
70°-80°	9851.4	20.8
80°-90°	1436.0	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	47439.0	100.0
0°-180°	47439.0	100.0

Coefficient of Utilization



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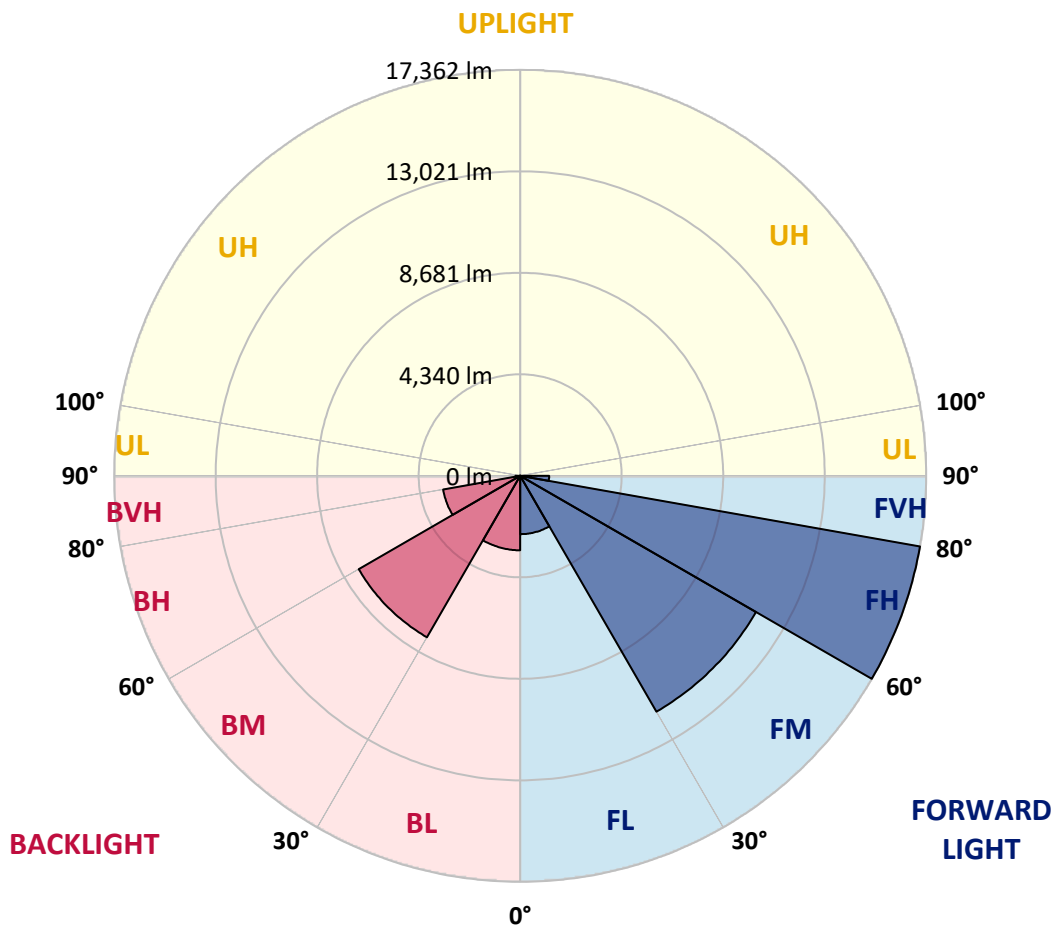
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2495.3	5.3			
FM (30°-60°)	11645.2	24.5			
FH (60°-80°)	17362.0	36.6			G5
FVH (80°-90°)	1238.3	2.6			G5
BL (0°-30°)	3183.8	6.7	B4/5000		
BM (30°-60°)	7972.4	16.8	B4/8500		
BH (60°-80°)	3344.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	197.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7
2.5°	5341.7	5371.9	5364.3	5354.3	5354.3	5356.8	5354.3	5371.9	5389.5	5407.1
5°	5397.0	5427.2	5412.1	5399.6	5389.5	5387.0	5379.4	5376.9	5387.0	5409.6
7.5°	5505.2	5535.4	5512.8	5490.1	5470.0	5459.9	5449.9	5434.8	5427.2	5439.8
10°	5626.0	5656.2	5628.5	5588.3	5555.6	5543.0	5532.9	5517.8	5507.7	5515.3
12.5°	5746.8	5777.0	5739.2	5683.9	5641.1	5633.5	5621.0	5615.9	5613.4	5610.9
15°	5860.0	5885.2	5837.4	5771.9	5726.6	5714.1	5701.5	5709.0	5721.6	5736.7
17.5°	5948.1	5973.2	5902.8	5817.2	5774.5	5769.4	5761.9	5787.0	5822.3	5860.0
20°	6028.6	6053.7	5963.2	5847.4	5797.1	5797.1	5799.6	5852.4	5902.8	5958.1
22.5°	6141.8	6161.9	6051.2	5892.7	5819.7	5824.8	5844.9	5897.7	5960.6	6036.1
25°	6310.4	6325.5	6189.6	5978.3	5895.2	5910.3	5927.9	5953.1	6013.5	6101.5
27.5°	6582.1	6594.7	6416.1	6129.2	6003.4	6028.6	6053.7	6036.1	6063.8	6139.3
30°	6964.6	6972.1	6745.7	6365.7	6187.1	6199.7	6204.7	6131.7	6078.9	6139.3
32.5°	7417.5	7414.9	7145.7	6652.6	6395.9	6383.3	6340.6	6197.2	6073.9	6126.7
35°	8119.5	8091.8	7744.6	7055.1	6632.4	6554.4	6453.8	6270.1	6099.0	6114.1
37.5°	9281.9	9196.3	8715.8	7714.4	6984.7	6785.9	6637.5	6388.4	6154.4	6109.1
40°	10592.8	10484.6	9956.2	8617.6	7513.1	7193.5	6954.5	6557.0	6245.0	6131.7
42.5°	12147.7	11994.3	11425.6	9682.0	8182.4	7719.4	7359.6	6770.8	6378.3	6204.7
45°	14057.5	13853.6	13048.5	10882.1	9025.3	8408.8	7928.2	7095.4	6582.1	6345.6
47.5°	15987.3	16037.6	14892.8	12255.9	10036.7	9259.3	8640.3	7583.5	6879.0	6572.1
50°	18037.9	18073.2	16727.0	13778.2	11184.1	10220.4	9440.4	8129.5	7291.7	6894.1
52.5°	19638.2	19643.2	18392.7	15370.9	12379.2	11277.2	10303.4	8753.5	7769.7	7321.9
55°	20639.6	20627.0	19560.2	16878.0	13753.0	12386.8	11259.6	9463.1	8353.5	7825.1
57.5°	21366.7	21329.0	20365.3	18173.8	15217.4	13697.7	12341.5	10268.2	9042.9	8423.9
60°	21643.5	21620.9	20911.3	19293.5	16757.2	15146.9	13589.5	11169.0	9825.4	9130.9
62.5°	21749.2	21791.9	21447.2	20377.9	18405.3	16752.2	14960.7	12245.9	10706.0	9931.0
65°	22121.6	22199.6	22129.1	21797.0	20267.2	18631.7	16779.9	13526.6	11667.2	10789.0
67.5°	22858.8	22936.8	22967.0	23495.3	22541.7	20974.2	19049.4	15121.8	12791.9	11679.7
70°	22841.2	22818.5	23351.9	24846.5	25390.0	24217.5	22109.0	17084.3	14132.9	12419.5
72.5°	20790.5	20609.4	21869.9	24831.4	27760.1	27604.1	25845.4	19615.5	15290.3	12510.1
75°	15597.3	15114.2	17341.0	22378.2	28155.2	29526.4	28220.6	21185.6	15016.1	11053.2
77.5°	6670.2	6184.6	8808.9	16566.0	25198.7	27601.6	26041.6	18483.3	11986.7	7309.3
80°	1746.2	1743.7	2662.0	7510.6	17137.2	20382.9	17881.9	11936.4	6848.8	2611.7
82.5°	722.1	704.5	978.8	2921.2	8373.6	11438.2	9334.7	5324.1	2473.3	707.0
85°	269.2	266.7	475.5	1009.0	2953.9	4717.7	3414.3	1361.2	616.4	344.7
87.5°	75.5	73.0	103.2	349.7	719.6	1092.0	583.7	223.9	173.6	135.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5424.7	0°	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7	5424.7
5434.8	2.5°	5442.3	5454.9	5477.6	5495.2	5517.8	5543.0	5578.2	5600.8	5623.5	5638.6
5447.4	5°	5465.0	5492.6	5550.5	5608.4	5676.3	5739.2	5812.2	5865.0	5907.8	5920.4
5492.6	7.5°	5515.3	5560.6	5658.7	5756.8	5865.0	5968.2	6073.9	6164.4	6237.4	6265.1
5573.2	10°	5603.4	5663.7	5802.1	5940.5	6083.9	6242.4	6378.3	6509.2	6612.3	6655.1
5668.8	12.5°	5714.1	5789.5	5970.7	6161.9	6360.7	6579.6	6755.7	6916.8	7045.1	7103.0
5802.1	15°	5857.5	5955.6	6187.1	6443.7	6735.6	7040.0	7264.0	7442.6	7586.0	7656.5
5940.5	17.5°	6013.5	6144.3	6436.2	6823.7	7241.3	7641.4	7903.1	8033.9	8182.4	8250.3
6068.8	20°	6164.4	6325.5	6743.1	7306.8	7862.8	8288.0	8499.4	8534.6	8544.7	8552.2
6189.6	22.5°	6320.4	6536.8	7128.1	7915.7	8512.0	8806.4	8836.5	8685.6	8474.2	8376.1
6307.9	25°	6491.5	6778.4	7631.3	8587.5	9070.5	9105.8	8874.3	8506.9	8106.9	7923.2
6403.5	27.5°	6657.6	7057.7	8235.2	9229.1	9473.1	9163.6	8665.5	8144.6	7661.5	7467.8
6471.4	30°	6823.7	7377.2	8902.0	9790.1	9656.8	9020.2	8335.8	7754.6	7269.0	7065.2
6531.8	32.5°	6992.2	7749.6	9669.4	10195.2	9624.1	8715.8	7925.7	7316.8	6889.1	6675.2
6584.6	35°	7183.5	8207.5	10396.5	10416.7	9405.2	8267.9	7384.8	6793.5	6421.1	6250.0
6647.5	37.5°	7432.6	8788.7	11038.1	10472.0	9022.7	7611.2	6713.0	6174.5	5867.5	5789.5
6740.6	40°	7742.0	9488.2	11528.8	10383.9	8456.6	6813.6	5978.3	5548.0	5374.4	5392.0
6866.4	42.5°	8144.6	10270.7	11873.5	10157.5	7669.1	5990.8	5334.1	5142.9	5225.9	5296.4
7055.1	45°	8668.0	11083.4	12087.3	9772.5	6778.4	5293.9	4954.2	4999.5	5062.4	5069.9
7359.6	47.5°	9337.2	11906.2	12228.2	9191.3	5870.1	4803.2	4712.7	4722.7	4710.1	4657.3
7815.0	50°	10172.6	12706.3	12354.1	8421.4	5097.6	4496.3	4375.5	4340.3	4166.7	3995.6
8421.4	52.5°	11123.7	13441.0	12406.9	7465.3	4496.3	4239.6	4043.4	3822.0	3497.4	3444.5
9183.8	55°	12180.4	14120.4	12271.0	6290.3	3990.5	3910.0	3613.1	3346.4	3311.2	3265.9
10187.7	57.5°	13443.5	14852.5	11994.3	4979.4	3472.2	3525.1	3235.7	3265.9	3203.0	3132.5
11478.5	60°	14824.9	15609.9	11508.6	3784.2	2936.3	3044.5	3137.6	3135.1	3117.4	3059.6
12839.7	62.5°	16067.8	16108.1	10552.5	2898.5	2465.8	2672.1	2926.2	2923.7	2908.6	2875.9
14261.3	65°	16807.6	16032.6	8957.3	2282.1	2078.3	2365.1	2639.4	2659.5	2662.0	2659.5
15330.6	67.5°	16676.7	15149.4	6768.3	1816.6	1758.8	2053.1	2355.1	2382.7	2402.9	2407.9
15466.5	70°	15197.2	13209.5	4413.2	1449.3	1474.4	1778.9	2085.8	2113.5	2131.1	2151.3
13420.9	72.5°	11845.8	9712.1	2526.2	1172.5	1225.3	1542.4	1819.1	1851.9	1861.9	1899.7
9339.8	75°	7218.7	5711.5	1363.7	923.4	1006.4	1318.4	1555.0	1592.7	1610.3	1655.6
4586.9	77.5°	3432.0	2473.3	777.5	719.6	810.2	1076.9	1313.4	1356.2	1308.4	1333.5
1265.6	80°	1159.9	918.4	490.6	548.5	619.0	840.4	1051.7	1094.5	993.9	988.8
420.2	82.5°	405.1	372.4	312.0	364.8	400.1	601.3	795.1	850.4	739.7	737.2
188.7	85°	158.5	151.0	173.6	198.8	239.0	369.9	523.3	551.0	455.4	367.4
55.4	87.5°	32.7	35.2	42.8	45.3	73.0	128.3	188.7	231.5	183.7	156.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
5424.7
5628.5
5925.4
6267.6
6657.6
7103.0
7651.5
8247.8
8572.4
8403.8
7950.9
7490.4
7087.9
6702.9
6287.7
5844.9
5452.4
5361.8
5120.3
4697.6
4018.2
3462.2
3273.4
3120.0
3039.4
2863.3
2659.5
2412.9
2161.3
1914.8
1660.6
1313.4
978.8
702.0
362.3
143.4
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